

Video Cassette Recorder

Operating Instructions

Owner's record

The model and serial numbers are located at the rear of the unit. Record these numbers in the spaces provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No		
Ctal NIa		
Serial No		

VHS

VCRPlusy-

SLV-778HF SLV-778HF PX SLV-777HF

©1998 by Sony Corporation

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the

product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION

To prevent electric shock, do not use this polarized AC plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

WARNING

The AC power cord must be changed at qualified service shop.

Precautions

Safety

- For SLV-778HF/777HF operate the unit only on 120 VAC, 60 Hz. For SLV-778HFPX, operate the unit on 110 to 240 V AC, 50/60Hz.
- If anything falls into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- This unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.
- · One blade of the plug is wider than the other for the purpose of safety and will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, contact your Sony dealer.
- Unplug the unit from the wall outlet if you do not intend to use it for an extended period of time. To disconnect the cord, pull it out by the plug, never by the cord.

Installing

Allow adequate air circulation to prevent internal heat buildup.

- Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation slots.
- Do not install the unit near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
- Do not install the unit in an inclined position. It is designed to be operated in a horizontal position only.
- Keep the unit and cassettes away from equipment with strong magnets, such as microwave ovens or
- large loudspeakers.
 Do not place heavy objects on the unit.
 If the unit is brought directly from a cold to a warm location, moisture may condense inside the VCR and cause damage to the video head and tape. When you first install the unit, or when you move it from a cold to a warm location, wait for about one hour before operating the unit.

Information

For customers in the USA CAUTION

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Caution

Television programs, films, video tapes and other materials may be copyrighted. Unauthorized recording of such material may be contrary to the provisions of the copyright laws. Also, use of this recorder with cable television transmission may require authorization from the cable television transmission and/or program owner.

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Quick reference to using the VCR

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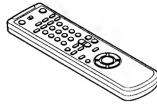
^{*} VCR Plus+ and PlusCode are trademarks of Gemstar Development Corporation. VCR Plus+ system is manufactured under license from Gemstar Development Corporation.

Step 1

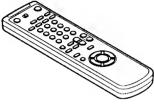
Unpacking

Check that you have received the following items with the VCR:

• Remote commander



• Size AA (R6) batteries



• Jack cover

connectors

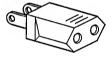


• 75-ohm coaxial cable with F-type

• Audio/video cable (3-phono to 3phono)



• Plug adaptor (SLV-778HF PX only)

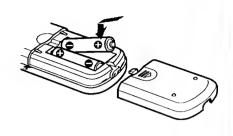


Setting up the remote commander

Inserting the batteries

Insert two size AA (R6) batteries by matching the + and - on the batteries to the diagram inside the battery compartment.

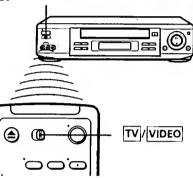
Insert the negative (-) end first, then push in and down until the positive (+) end clicks into position.



Remote sensor

Using the remote commander

You can use this remote commander to operate this VCR and a Sony TV. Buttons on the remote commander marked with a dot (•) can be used to operate your Sony TV.



To operate	Set TV/VIDEO to
the VCR	VIDEO and point at the remote sensor on the VCR
a Sony TV	TV and point at the remote sensor on the TV

- With normal use, the batteries should last about three to six months.
- If you do not use the remote commander for an extended period of time, remove the batteries to avoid possible damage from battery leakage.
- Do not use a new battery with an old one.
- Do not use different types of batteries.

continued	
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Step 2: Setting up the remote commander (continued)

Controlling other TVs with the remote commander

The remote commander is preprogrammed to control non-Sony TVs. If your TV is listed in the table below, set the appropriate manufacturer's code number.

- 1 Set TV/VIDEO at the top of the remote commander to TV.
- Hold POWER down, and enter your TV's code number(s) using the number buttons. Then release POWER.

Now you can use the POWER, VOL +/-, CH +/-, and TV/VIDEO buttons to control your TV. You can also use the buttons marked with a dot (\bullet) to control a Sony TV. To control the VCR, reset $\boxed{\text{TV}}/\boxed{\text{VIDEO}}$ to $\boxed{\text{VIDEO}}$.

Code numbers of controllable TVs

If more than one code number is listed, try entering them one at a time until you find the one that works with your TV.

Manufacturer	Code number	Manufacturer	Code number	Manufacturer	Code number
Sony	01	JVC	09	RCA	04,10
Akai	04	KMC	03	Sampo	12
AOC	04	Magnavox	03,08,12	Sanyo	11
Centurion	12	Marantz	04,13	Scott	12
Coronado	03	MGA/Mitsubishi	04,12,13,17	Sears	07,10,11
Curis-Mathes	12	NEC	04,12	Sharp	03,05,18
Daytron	12	Panasonic	06,19	Sylvania	08,12
Emerson	03,04,14	Philco	03,04	Teknika	03,08,14
Fisher	11	Philips	08	Toshiba	07
General Electric	06,10	Pioneer	16	Wards	03,04,12
Gold Star	03,04,17	Portland	03	Yorx	12
Hitachi	02,03	Quasar	06,18	Zenith	15
J.C.Penny	04,12	Radio Shack	05,14		

Notes

- If the TV uses a different remote control system from the one programmed to work with the VCR, you cannot control your TV with the remote commander.
- If you enter a new code number, the code number previously entered will be erased.
- When you replace the batteries of the remote commander, the code number may automatically reset to 01 (Sony). If your TV is not a Sony, it is recommended to manually set the appropriate code number every time you replace the batteries.

Hookups

Selecting the best hookup option

There are many ways in which your VCR can be hooked up. To hook up your VCR so that it works best for you, first scan through the table below. Then use the accompanying diagrams and procedures on the following pages to set up your VCR.

If you have	Use	Refer to Pages 8 and 9	
TV that has audio/video inputs	Audio/video (A/V) hookup, then follow one of the hookups below.		
Cable box that is compatible with the VCR's cable box control feature	Hookup 1	Pages 10 to 12	
No cable box or incompatible cable box with only a few scrambled channels	Hookup 2	Pages 13 to 15	
Antenna only, no cable TV	Hookup 3	Pages 16 to 18	
Incompatible cable box with many scrambled channels	Hookup 4	Pages 19 to 21	
DSS®* receiver	Hookup 5	Pages 22 to 24	
Incompatible cable box with only a few scrambled channels, using an A/B switch	Hookup 6	Pages 25 to 29	

After you've completed the connections, follow the instructions for setup. During setup, if you need more details on the procedure described, page numbers are provided where you can find complete, step-by-step instructions.

After you've completed the setup, you're ready to use your VCR. Procedures differ depending on the hookup you used. For an overview, refer to "Quick reference to using the VCR" on the back cover.

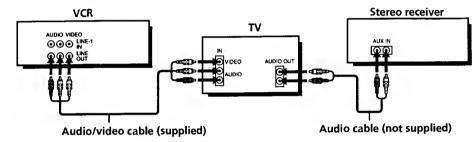
Before you get started

- Turn off the power to all equipment.
- Do not connect the AC power cords until all of the connections are completed.
- Be sure you make connections firmly. Loose connections may cause picture distortion.
- If your TV doesn't match any of the examples provided, see your nearest Sony dealer or qualified technician.
- * DSS® is a registered trademark of DIRECTV, Inc., a unit of Hughes Electronics Corporation.

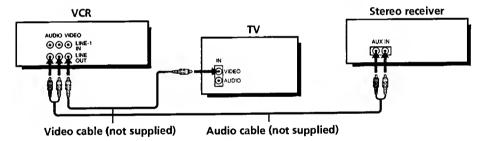
If your TV has audio/video (A/V) input jacks, you will get a better picture and sound if you hook up your VCR using these connections. In addition, for a true "home theater" experience, you should connect the audio outputs of your VCR or TV to your stereo system. If your TV doesn't have A/V inputs, see the following pages for antenna or cable hookups.

If you're not planning to use your VCR to record programs, you're finished setting up the VCR after you've made the connections shown on page 8. If you want to record off-air or off your cable TV system, complete these connections first, and then go to the following pages for antenna or cable hookups.

A Use this hookup if your TV has stereo jacks



B Use this hookup if your TV doesn't have stereo jacks



Note

• To play a tape in stereo, you must use the A/V connection.

Caution

Connections between the VCR's VHF/UHF connector and the antenna terminals of the TV receiver should be made only as shown in the following instructions. Failure to do so may result in operation that violates the regulations of the Federal Communications Commission regarding the use and operation of RF devices. Never connect the output of the VCR to an antenna or make simultaneous (parallel) antenna and VCR connections at the antenna terminals of your receiver.

Note to CATV system installer (in USA)

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

continued

Hookup 1

Pages 10 to 12

Using cable box control

Recommended use

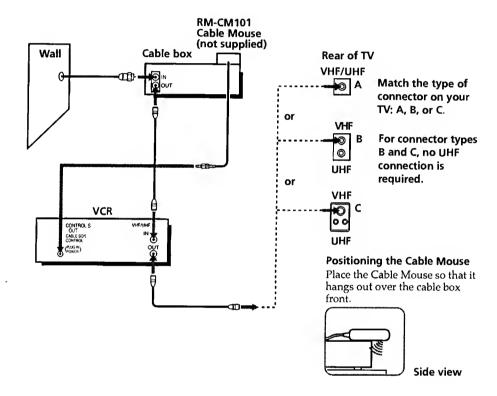
You should use this hookup if you have a cable box, especially if your cable system scrambles all or most channels. This hookup allows the VCR's cable box control feature to control the channel on the cable box, simplifying the recording process. A list of compatible cable boxes is on pages 39 and 40.

What you can do with this hookup

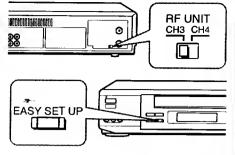
• Record any channel using the VCR's cable box control feature to select channels on the cable box

What you can't do

- · Record with the cable box turned off
- Record one channel while watching another channel



For details, see page 78. If you made A/V connections (from page 8), you can skip this step.



SET UP LANGUAGE

2 Turn on your cable box.

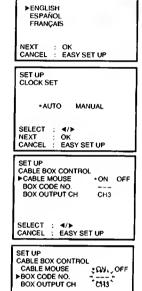
3 Press EASY SET UP on the VCR.

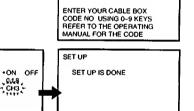
- The LANGUAGE menu appears. Change the on-screen display language to Spanish (ESPAÑOL) or French (FRANÇAIS) if desired, and press OK. For details, see page 30.
- 2 The CLOCK SET menu appears. Select AUTO and press OK. For details, see page 31.
- **3** The CABLE BOX CONTROL menu appears. Select ON. For details, see page 38.
- ◆ Enter your cable box code number and press
 ↓.
 For details, see page 39.

SET UP
CABLE BOX CONTROL
CABLE MOUSE
BOX CODE NO.
>BOX OUTPUT CH

USE ◀/▶ TO SELECT CABLE BOX CH. THEN PUSH OK

5 Select your cable box output channel and press OK.





Normal display continued

Getting Started

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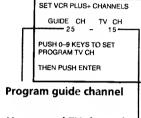
Step 3: Hookups (continued)

Hookup 1: VCR Plus+ channel setup

- Find the VCR Plus+ Channel Listing in your program guide. For details, see page 49.
- 2 If the channels in the program guide are different from the channels that you actually use on your TV, set the channels that are different as follows. For details, see page 50.
 - 1 Press MENU and select SET VCR PLUS+ CHANNELS.

MENU TIMER SET / CHECK TUNER PRESET SET VCR PLUS+ CHANNELS CABLE BOX CONTROL CLOCK SET LANGUAGE ADVANCED OPTIONS

- 2 Enter the program guide channel, then the channel you use on your TV.
- 3 Press OK.



Your actual TV channel

Automatic clock setting

Once you've set up the VCR, it automatically sets the clock the first time you turn off the VCR. After that, whenever you turn off the VCR, it checks the time and adjusts the clock, even for Daylight Saving Time. The VCR sets the clock by picking up a time signal provided by some TV channels.

If you want to use the timer to record right away, or if the channels in your area do not carry time signals, set the clock manually. For details, see page 36.

• To use the automatic clock setting feature, leave the cable box on.

No cable box, or incompatible cable box with only a few scrambled channels

Recommended use

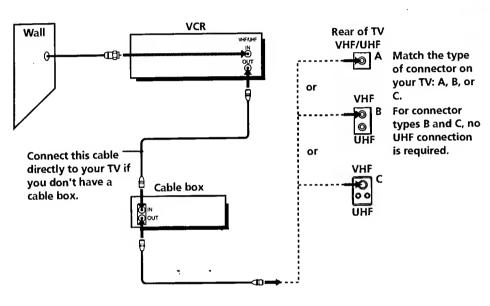
Use this hookup if you do not have a cable box. Also use this hookup if your cable company cannot supply a cable box that is compatible with the VCR's cable box control feature, and your cable system scrambles only a few channels.

What you can do with this hookup

Record any unscrambled channel by selecting the channel on the VCR

What you can't do

• Record scrambled channels that require a cable box



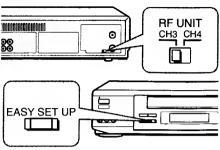
continued

Step 3: Hookups (continued)

Hookup 2: VCR setup

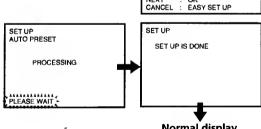
1 Set the RF UNIT switch to CH 3 or CH 4, whichever channel is not used in your area. If both are used, set the switch to either channel.

> For details, see page 78. If you made A/V connections (from page 8), you can skip this step.



SET UP LANGUAGE

- Press EASY SET UP on the VCR.
 - 1 The LANGUAGE menu appears. Change the on-screen display language to Spanish (ESPAÑOL) or French (FRANÇAIS) if desired, and press OK. For details, see page 30.
 - 2 The CLOCK SET menu appears. Select AUTO and press OK. For details, see page 31.
 - 3 The CABLE BOX CONTROL menu appears. Select OFF and press OK.
 - 4 The TUNER PRESET menu appears. Set ANTENNA/CABLE to CABLE and press OK. For details, see page 43.
 - 6 The AUTO PRESET starts.



►ENGLISH ESPAÑOL FRANÇAIS NEXT : OK CANCEL : EASY SET UP SET UP CLOCK SET

•AUTO MANUAL SELECT : 4/► NEXT : OK CANCEL : EASY SET UP

SET UP CABLE BOX CONTROL CABLE MOUSE ON +OFF

SELECT CANCEL 4/▶ EASY SET UP

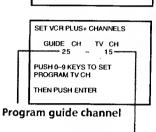
SET UP TUNER PRESET ANTENNA / CABLE ANT • CABLE

Normal display

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Hookup 2: VCR Plus+ channel setup

- Find the VCR Plus+ Channel Listing in your program guide. For details, see page 49.
- If the channels in the program guide are different from the channels that you actually use on your TV, set the channels that are different as follows. For details, see page 50.
 - 1 Press MENU and select SET VCR PLUS+ CHANNELS.
 - 2 Enter the program guide channel, then the channel you use on your TV.
 - Press OK.



TIMER SET / CHECK
TUNER PRESET
SET VCR PLUS+ CHANNELS
CABLE BOX CONTROL
CLOCK SET
LANGUAGE
ADVANCED OPTIONS

Your actual TV channel

MENU

Automatic clock setting

Once you've set up the VCR, it automatically sets the clock the first time you turn off the VCR. After that, whenever you turn off the VCR, it checks the time and adjusts the clock, even for Daylight Saving Time. The VCR sets the clock by picking up a time signal provided by some TV channels.

If you want to use the timer to record right away, or if the channels in your area do not carry time signals, set the clock manually. For details, see page 36.

continued

Hookup 3

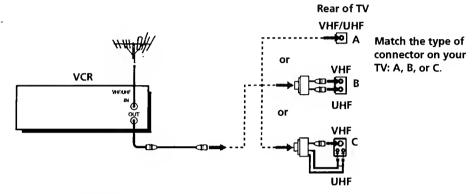
Pages 16 to 18

Antenna hookup

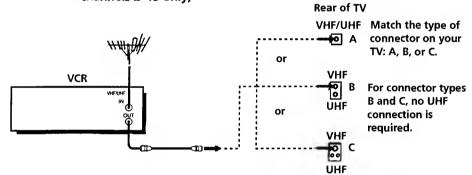
Make the following connections if you're using an antenna (if you don't have cable TV).

A Use this hookup if you're using:

- VHF/UHF antenna (you get channels 2–13 and channels 14 and higher)
- UHF-only antenna (you get channels 14 and higher)
- Separate VHF and UHF antennas



B Use this hookup if you're using a VHF-only antenna (you get channels 2-13 only)

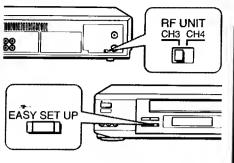


If you cannot connect your antenna cable to the VCR directly

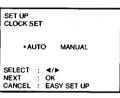
If your antenna cable is a flat cable (300-ohm twin lead cable), attach an external antenna connector (not supplied) so that you can connect the cable to the VHF/UHF IN connector. If you have separate cables for VHF and UHF antennas, you should use a U/V band mixer (not supplied). For details, see page 79.

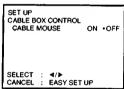
For details, see page 78. If you made A/V connections (from page 8), you can skip this step.

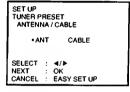
- **2** Press EASY SET UP on the VCR.
 - The LANGUAGE menu appears. Change the on-screen display language to Spanish (ESPAÑOL) or French (FRANÇAIS) if desired, and press OK. For details, see page 30.
 - 2 The CLOCK SET menu appears. Select AUTO and press OK. For details, see page 31.
 - **3** The CABLE BOX CONTROL menu appears. Select OFF and press OK.
 - 4 The TUNER PRESET menu appears. Set ANTENNA/CABLE to ANT and press OK. For details, see page 43.
 - **6** The AUTO PRESET starts.

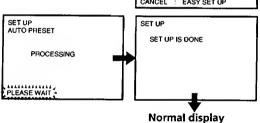












continued

Getting Started

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tting Started

Step 3: Hookups (continued)

Hookup 3: VCR Plus+ channel setup

- Find the VCR Plus+ Channel Listing in your program guide. For details, see page 49.
- If the channels in the program guide are different from the channels that you actually use on your TV, set the channels that are different as follows. For details, see page 50.
 - Press MENU and select SET VCR PLUS+ CHANNELS.

MENU TIMER SET / CHECK
TUNER PRESET
SET VCR PLUS+ CHANNELS
CABLE BOX CONTROL
CLOCK SET
LANGUAGE
ADVANCED OPTIONS

- 2 Enter the program guide channel, then the channel you use on your TV.
- 3 Press OK,



Automatic clock setting

Once you've set up the VCR, it automatically sets the clock the first time you turn off the VCR. After that, whenever you turn off the VCR, it checks the time and adjusts the clock, even for Daylight Saving Time. The VCR sets the clock by picking up a time signal provided by some TV channels.

If you want to use the timer to record right away, or if the channels in your area do not carry time signals, set the clock manually. For details, see page

Incompatible cable box with many scrambled channels

Recommended use

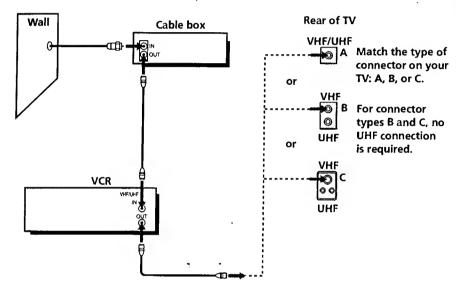
Use this hookup if your cable company cannot supply a cable box that is compatible with the VCR's cable box control feature, and your cable system scrambles all or most channels.

What you can do with this hookup

• Record any channel by selecting the channel on the cable box

What you can't do

- Record with the cable box turned off
- Record one channel while watching another channel
- Select channels directly on the VCR



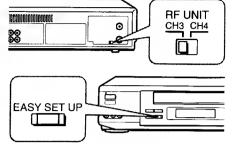
continued

Step 3: Hookups (continued)

Hookup 4: VCR setup

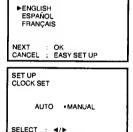
1 Set the RF UNIT switch to CH 3 or CH 4, whichever channel is not used in your area. If both are used, set the switch to either channel.

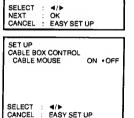
For details, see page 78. If you made A/V connections (from page 8), you can skip this step.

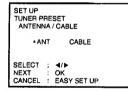


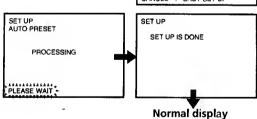
SET UP LANGUAGE

- **2** Turn on your cable box.
- **3** Press EASY SET UP on the VCR.
 - The LANGUAGE menu appears. Change the on-screen display language to Spanish (ESPANOL) or French (FRANÇAIS) if desired, and press OK. For details, see page 30.
 - The CLOCK SET menu appears. Select MANUAL, press OK, and set the clock manually. For details, see page 36.
 - **3** The CABLE BOX CONTROL menu appears. Select OFF and press OK.
 - The TUNER PRESET menu appears. Set ANTENNA/CABLE to ANT and press OK. For details, see page 43.
 - **6** The AUTO PRESET starts.









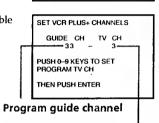
20 | Getting Started

Hookup 4: VCR Plus+ channel setup

- Find the VCR Plus+ Channel Listing in your program guide. For details, see page 49.
- Enter all the channels you want to record and the cable box output channel (usually 2, 3, or 4). For details, see page 50.
 - 1 Press MENU and select SET VCR PLUS+ CHANNELS.

TIMER SET / CHECK
TUNER PRESET
SET VCR PLUS+ CHANNELS
CABLE BOX CONTROL
CLOCK SET
LANGUAGE
ADVANCED OPTIONS

- 2 Enter the program guide channel, then the cable box output channel.
- 3 Press OK.



Cable box output channel

Automatic clock setting

To use the Auto Clock Set feature with this hookup, you need to manually select a channel that carries a time signal:

- 1 Tune the cable box to a channel that carries a time signal.
- 2 Select AUTO in the CLOCK SET menu to turn on the Auto Clock Set
- 3 Turn off the VCR. It automatically sets the clock and adjusts for Daylight Saving Time by picking up the time signal.

If you want to use the timer to record right away, or if the channels in your area do not carry time signals, set the clock manually. For details, see page 36.

Note

• To use the automatic clock setting feature, leave the cable box on.

continued

DSS (Digital Satellite System) receiver

Recommended use

Use this hookup if you have a DSS receiver. It allows the VCR's cable box control feature to control the channel on the DSS receiver, simplifying the recording process. A list of compatible DSS receivers is on page 40.

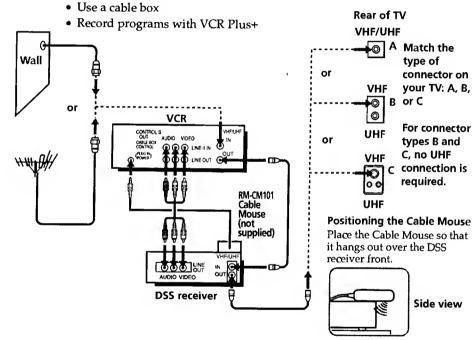
DSS (Digital Satellite System) is a satellite broadcast that provides superior digital-quality video and crisp digital-quality audio. A variety of program packages are available through your program providers. It also has program guides that are sorted by program categories.

What you can do with this hookup

• Record any channels using the VCR's cable box control feature to select channels on the DSS receiver.

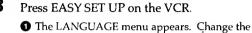
What you can't do

- · Record with the DSS receiver turned off
- · Record any channels from cable or an antenna (To record channels from cable or an antenna, turn off the cable box control feature.)



For details, see page 78. If you made A/V connections (from page 8), you can skip this step.

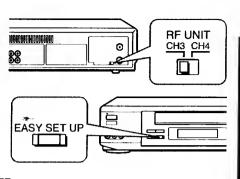
2 Turn on your DSS receiver.



- The LANGUAGE menu appears. Change the on-screen display language to Spanish (ESPAÑOL) or French (FRANÇAIS) if desired, and press OK. For details, see page 30.
- 2 The CLOCK SET menu appears. Select AUTO and press OK. For details, see page 31.
- **3** The CABLE BOX CONTROL menu appears. Select ON. For details, see page 38.
- 4 Enter your DSS receiver code number and press↓. For details, see page 39.

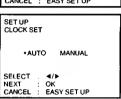
USE 4/▶ TO SELECT CABLE BOX CH. THEN PUSH OK

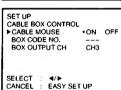
Set your DSS receiver output channel (BOXOUTPUT CH) to LINE and press OK.

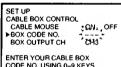




Getting Started







SET UP
CABLE BOX CONTROL
CABLE MOUSE
BOX CODE NO. OFF
BOX COTPUTCH
SET UP SET U

Normal display

Getting Started

23

Step 3: Hookups (continued)

Automatic clock setting

Once you've set up the VCR, it automatically sets the clock the first time you turn off the VCR. After that, whenever you turn off the VCR, it checks the time and adjusts the clock, even for Daylight Saving Time. The VCR sets the clock by picking up a time signal provided by some TV channels.

If you want to use the timer to record right away, or if the channels in your area do not carry time signals, set the clock manually. For details, see page 36.

Note

- To successfully record a program from the DSS receiver, proceed as follows:
 - Leave the DSS receiver on all the time.
 - Turn off the display (menu screen, channel number, etc.) of the DSS receiver.
 - To record or receive locked channels, unlock the channel before the VCR starts recording.
 - To set pay-per-view programs in the timer setting, order the pay-per-view program before the VCR starts recording.
 - Some programs are copy protected. You cannot record these programs.

Incompatible cable box with only a few scrambled channels, using an A/B switch

Recommended use

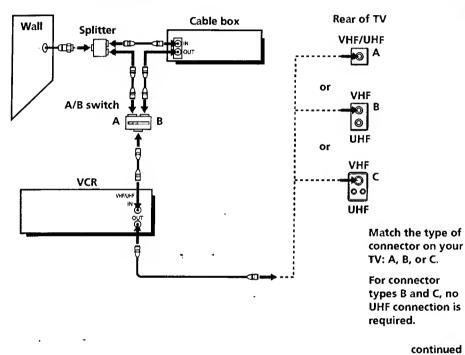
By using an A/B switch (not supplied), this hookup allows you to record both scrambled and unscrambled channels conveniently.

What you can do with this hookup

- Record any unscrambled channel by selecting the channel directly on the VCR (the A/B switch is set to A)
- Record any scrambled channel by selecting the channel on the cable box (the A/B switch is set to B)

What you can't do

Record one scrambled channel while watching another channel (the A/B switch is set to B)

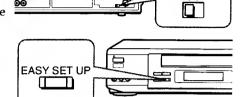


Step 3: Hookups (continued)

Hookup 6: VCR setup

1 Set the RF UNIT switch to CH 3 or CH 4, whichever channel is not used in your area. If both are used, set the switch to either channel.

For details, see page 78. If you made A/V connections (from page 8), you can skip this step.

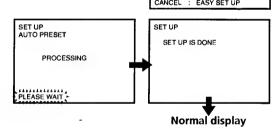


0

2 Set the A/B switch to "A."

Press EASY SET UP on the VCR.

- ◆ The LANGUAGE menu appears. Change the on-screen display language to Spanish (ESPAÑOL) or French (FRANÇAIS) if desired, and press OK. For details, see page 30.
- **2** The CLOCK SET menu appears. Select AUTO and press OK. For details, see page 31.
- **3** The CABLE BOX CONTROL menu appears. Select OFF and press OK.
- The TUNER PRESET menu appears. Set ANTENNA/CABLE to CABLE and press OK. For details, see page 43.
- **5** The AUTO PRESET starts.

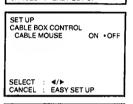


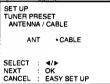


RF UNIT

CH3 CH4







- 4 Preset the cable box output channel (usually 2, 3 or 4). For details, see page 45.
 - 1 Press MENU and select TUNER PRESET.
 - 2 Enter the cable box output channel.
 - 3 Set MANUAL SET to ADD and press OK.

Cable box output channel

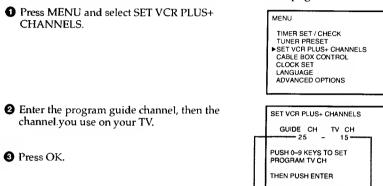


continued

Step 3: Hookups (continued)

Hookup 6: VCR Plus+ channel setup

- 1 Find the VCR Plus+ Channel Listing in your program guide. For details, see page 49.
- For unscrambled channels, if the channels in the program guide are different from the channels that you actually use on your TV, set the channels that are different as follows. For details, see page 50.



Program guide channel Your actual TV channel

- For scrambled channels, enter all the scrambled channels you want to record and the cable box output channel (usually 2, 3, or 4). For details, see page 50.
 - 1 Press MENU and select SET VCR PLUS+ MENU CHANNELS. TIMER SET / CHECK
 TUNER PRESET

 SET VCR PLUS+ CHANNELS
 CABLE BOX CONTROL
 CLOCK SET
 LANGUAGE ADVANCED OPTIONS 2 Enter the program guide channel, then the cable SET VCR PLUS+ CHANNELS box output channel. GUIDE CH TV CH PUSH 0-9 KEYS TO SET PROGRAM TV CH Press OK. THEN PUSH ENTER Program guide channel

Cable box output channel

Automatic clock setting

Once you've set up the VCR, it automatically sets the clock the first time you turn off the VCR. After that, whenever you turn off the VCR, it checks the time and adjusts the clock, even for Daylight Saving Time. The VCR sets the clock by picking up a time signal provided by some TV channels.

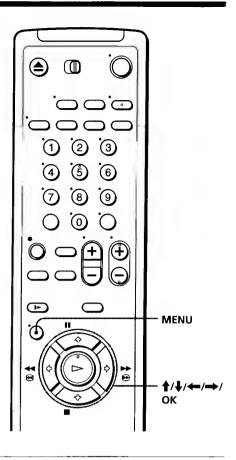
If you want to use the timer to record right away, or if the channels in your area do not carry time signals, set the clock manually. For details, see page 36.

Note

• To use the automatic clock setting feature, set the A/B switch to A.

Selecting a language

You can change the on-screen display language.



• MENU

Press MENU, then press ↑ ↓ to move the cursor (►) to LANGUAGE and press OK.

LANGUAGE ►ENGLISH ESPAÑOL FRANÇAIS



When using the EASY SET UP procedure, skip this step.

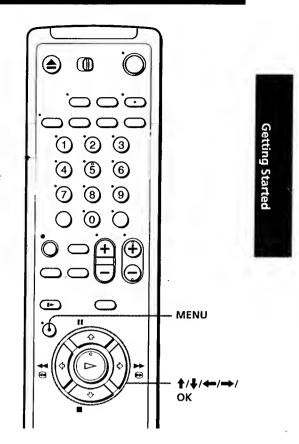


Press **↑**/**↓** to select ENGLISH, ESPAÑOL, or FRANÇAIS, then press OK.

The Auto Clock Set feature works only if a channel in your area is broadcasting a time signal. If broadcasters in your area are not yet sending time signals, set the time manually (page 36).

Before you start...

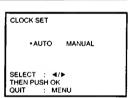
- Turn on the VCR and the TV.
- Set the TV to the VCR channel (channel 3 or 4). If your TV is connected to the VCR using A/V connections, set the TV to video input.
- Press TV/VIDEO to display the VIDEO indicator in the VCR's display window.
- Press INPUT SELECT so that a channel number appears in the VCR's display window.



1 ·MENU

Press MENU, then press ↑/↓ to move the cursor (▶) to CLOCK SET and press OK.





continued

Getting Started

31

Setting the clock (continued)

Press \leftarrow/ \rightarrow to select AUTO, then press OK.

AUTO CLOCK SET

FULL AUTO

•YES NO

SELECT END OUIT

√/► OK MENU



Press \leftarrow/\Rightarrow to select YES, then press OK.

To activate the Auto Clock Set function, turn off the VCR.

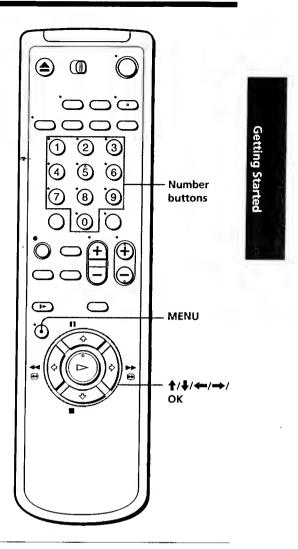
The VCR automatically sets the clock by searching for a channel that carries a time signal and sets your time zone and Daylight Saving Time (if applicable).

If your clock is set to the wrong time zone or Daylight Saving Time, you can adjust these settings without turning off the Auto Clock Set feature (page 33).

Notes

- The clock cannot be set automatically if you don't receive a channel that carries a time signal in your area. If so, set the clock manually.
- If there are only a few channels in your area that carry time signals, setting the clock automatically may take up to about 30 minutes. If nothing happens even after you wait about 30 minutes, set the clock manually.
- If you use Hookup 1, make sure you leave the cable box on.

If the clock is not activated



Follow steps 1 and 2 in "Using the Auto Clock Set feature."

The AUTO CLOCK SET menu is displayed.

AUTO CLOCK SET FULL AUTO **4/**► QK MENU

continued

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Setting the clock (continued)

Press ←/→ to select NO for FULL AUTO.

AUTO CLOCK SET

FULL AUTO YES •NC
CLOCK SET CH --TIME ZONE AUTO
DAYLIGHT SAVING AUTO

SELECT : **∢/**▶ END · OK OUIT · MENU

① ② ③

4 5 6

® ®

©

Press \uparrow / \downarrow to move the cursor (\triangleright) to the item you want to set, then press $\longleftarrow / \Longrightarrow$ to make the setting.

For CLOCK SET CH
 Leave the setting to "--" to have the
 VCR automatically search for a channel
 that carries a time signal.
 Press the number buttons to select a
 channel that carries a time signal.
 Use this option if you know of a channel
 that carries a time signal. Most PBS
 member stations broadcast a time

For TIME ZONE
 Select the time zone of your area, or select AUTO to have the VCR
 automatically set your time zone.
 The options are: AUTO → ATLANTIC
 → EASTERN → CENTRAL →
 MOUNTAIN → PACIFIC → ALASKA
 → HAWAII → AUTO

signal. For the fastest response, select

your local PBS station.

For DAYLIGHT SAVING
 Select ON or OFF (standard time), or
 AUTO to have the VCR automatically
 set the daylight saving time.

FULL AUTO
FULCOCK SET CH
TIME ZONE
DAYLIGHT SAVING
USE
DO
OK
OUIT

AUTO

YES
NO
122
AUTO
AUTO
AUTO

AUTO

YES
NO
122
AUTO

AUTO

AUTO CLOCK SET

FULL AUTO
CLOCK SET CH
TIME ZONE
DAYLIGHT SAVING

SELECT: 4/>
END : OK

AUTO CLOCK SET

FULL AUTO
CLOCK SET CH
122
TIME ZONE
DAYLIGHT SAVING
SELECT: 4/P
END : OK
OUIT MENU

Press OK.

5

To activate the Auto Clock Set function, turn off the VCR.

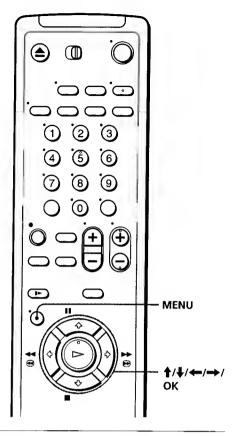
Note

 If you use both the cable box control feature and the Auto Clock Set feature, the VCR automatically changes channels on the cable box until a channel that carries a time signal is found, whenever you turn off the VCR. If you want to stop the search, change the channel on the cable box with the channel buttons either on the VCR or on the remote commander.

continued

Setting the clock (continued)

Using Manual clock set



Press MENU, then press ↑ ↓ to move the cursor (►) to CLOCK SET and press OK.

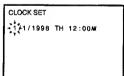
CLOCK SET AUTO MANUAL



When using the EASY SET UP procedure, skip this step.

SELECT : ◀/▶ THEN PUSH OK OUIT : MENU

Press ←/→ to select MANUAL and press OK.





Press → to flash the day and press ↑/↓ to set the day.

The day of the week is set automatically.

CLOCK SET

11 Å 6 1998 MO 12:00#



Set the year, hour, and minutes in the same way as the day.

6



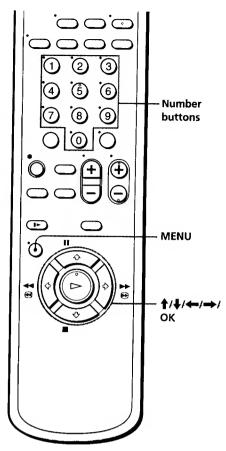
Press OK to start the clock.

Setting up cable box control

(Skip this section if you are using Hookup 2, 3, 4, or 6.)

Your VCR includes a cable box control feature that allows the VCR to control most brands of cable boxes/DSS receivers via an optional Cable Mouse. With cable box control, the VCR controls channels on the cable box/DSS receiver for timer recording. You can also use the VCR's remote commander to change channels on the cable box/DSS receiver whenever the cable box/DSS receiver is turned on even if the VCR is turned off. To use cable box control, you need to connect the Sony RM-CM101 Cable Mouse (not supplied) (pages 10 and 22) and set the code number and output channel.

This VCR is programmed with codes necessary to control channel selection on most brands of cable boxes at the time this VCR was manufactured. It is possible that new cable boxes may be introduced that cannot be controlled with the RM-CM101 Cable Mouse. If you have a cable box that is incompatible with this VCR, contact your cable operator — they may be able to provide you with a compatible cable box.



• MENU



Press MENU, then press ↑/ ↓ to move the cursor (▶) to CABLE BOX CONTROL and press OK.

When using the EASY SET UP procedure, skip this step.

CABLE BOX CONTROL

CABLE MOUSE

Press \leftarrow/\Rightarrow to select ON, then press \clubsuit . "---" flashes in the BOX CODE NO. row.

If a code number has already been CABLE BOX CONTROL

CABLE MOUSE ►BOX CODE NO. BOX OUTPUT CH ¢ΩN₄,OFF CH3

ENTER YOUR CABLE 80X CODE NO. USING 0-9 KEYS REFER TO THE OPERATING MANUAL FOR THE CODE

©

USE **4/**▶ TO SELECT CABLE BOX CH. THEN PUSH OK

CABLE BOX CONTROL



If you want to control a cable box, press ←/→ to select the output channel for the cable box, then press OK.

If you want to control a DSS receiver, select LINE, then press OK.

Cable box and DSS receiver brand and the corresponding code numbers

If more than one code number is listed, try entering them one by one, until you come to the correct code for your equipment.

Code numbers	
018, 022, 024, 028, 217	
218	
033, 050, 164, 218, 808	
278	
067	
033	
172, 388, 459	
164	
164, 326, 327	
097	
036, 042	
243, 244	
051, 071	
434	
046	
051	

Cable box brand	Code numbers
Eastern	013, 285
Electricord	089
Electus	055
Focus	411
Garrard	164
GC Electronics	027, 067, 341
GE	243, 244
GEC	097
Gemini	026, 068, 081
General Instrument	022, 287, 487
Hamlin	020, 031, 045, 270, 284
Hitachi	022
Jasco	164, 326
Jerrold	014, 022, 025, 026, 035, 037, 058, 109, 287, 487
Linsay	451

continued

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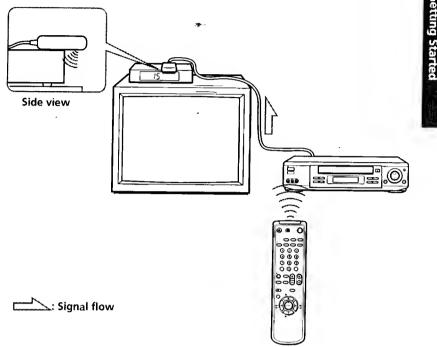
Setting up cable box control (continued)

Cable box brand	Code numbers
Macom	044
Magnavox	038, 043, 080
Memorex	011
Movie Time	089, 167, 214
Northcoast	325
Novaplex	629
NSC	074, 081, 167, 214
Oak	018, 030, 259
Panasonic	032, 118
Paragon	011
Philips	036, 038, 039, 040, 041, 042, 071, 301
Pioneer	034, 155, 271, 544, 695
Popular Mechanics	411
Pulsar	011
Radio shack	808
RCA	032
Realistic	218
Recoton	411
Regal	031, 270, 284, 290
Regency	013
Rembrandt	081
Samsung	051, 155
Scientific Atlanta	017, 019, 028, 288
Seam	521
Sharp	324
Signal	051
Signature	022
SL Marx	051
Spectravision	069
Sprucer	032, 318
Standard Components	107, 166
Starcom	014, 026, 058, 109
Stargate	026, 051
STS	167

Cable box brand	Code numbers	
Sylvania	012	
T-Cable Teletext	116	
Tandy	269	
Tatung	108	
Teknica	157	
TeleCaption	232	
Teleservice	292	
Texscan	012, 107	
TFC	321	
Timeless	429	
Tocom	023, 024	
Toshiba	011	
Tudi	297	
TV86	074	
TV COM	018, 030, 259	
Uniden	236	
Unika	033, 164, 218	
United Artists	018	
United Cable	014	
Universal	033, 050, 067, 088, 089, 164, 202, 218, 333	
Videoway	261	
Vidtech	255	
Viewstar	038, 071, 074, 122, 222, 269, 300	
Zenith	011, 065, 536	
Zentek	411	
Vave Master	576	
OSS receiver orand	Code numbers	
• •		

DSS receiver brand	Code numbers		
Hitachi	830		
RCA	577		
Sony	650		
Toshiba	801		

- Place the Cable Mouse so that it hangs out over the cable box/DSS receiver front.
- Do not place the cable box/DSS receiver on top of the VCR.
- Position the cable box/DSS receiver away from the VCR.
- Point the remote commander at the VCR, not at the cable box/DSS



To check the cable box control setting

- Press CH +/- on the remote commander. Does the channel indicator on the cable box/DSS receiver change? (Point the remote commander at the VCR, not at the cable box/DSS receiver.)
- Press all 10 number buttons (0 to 9) on the remote commander. Does the channel indicator on the cable box/DSS receiver change?

If the answer to both 1 and 2 is "yes," you have made the correct setting.

continued	

Setting up cable box control (continued)

If you cannot get your VCR to control the cable box/DSS receiver

- Check that the Cable Mouse is connected to the CABLE BOX CONTROL jack on the VCR.
- Check the position of the Cable Mouse.
- Place the cable box/DSS receiver and VCR away from each other. Do not place the cable box/DSS receiver on top of the VCR.
- Try the setup again making sure to use the correct control code. If the cable box still does not respond, try the other codes that are listed.

If your cable box still does not operate with the Cable Mouse, contact your cable company to see if they can provide you with a compatible cable box.

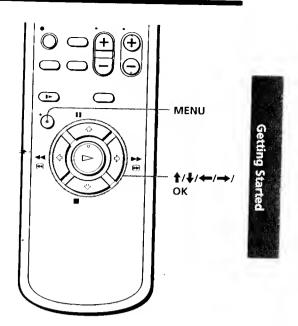
Note

 Make sure you turn off the VCR when you plug in or unplug the Cable Mouse. If you unplug the Cable Mouse and plug it in again, turn on the VCR before you use the cable box/DSS receiver control feature.

Presetting channels

(Skip this section if you are using cable box/DSS receiver control.)

This VCR is capable of receiving VHF channels 2 to 13, UHF channels 14 to 69 and unscrambled CATV channels 1 to 125. First, we recommend that you preset the receivable channels in your area using automatic presetting. Then, if there are any unwanted channels, disable them manually. If you have decided which channels you wish to preset, set them directly using manual presetting.



Before you start...

- Turn on the VCR and the TV.
- Set the TV to the VCR channel (channel 3 or 4). If your TV is connected to the VCR using A/V connections, set the TV to video input.
- Press TV/VIDEO to display the VIDEO indicator in the VCR's display window.

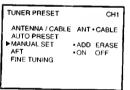
Presetting all receivable channels automatically

1 ·MENU

Press MENU, then press \uparrow/\downarrow to move the cursor (\triangleright) to TUNER PRESET and press OK.



When using the EASY SET UP procedure, skip this step.



2



Press **↑**/**↓** to select ANTENNA/CABLE.

continued

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Presetting channels (continued)

3



• To preset cable TV channels:

Press ←/→ to set ANTENNA/CABLE to CABLE.

TUNER PRESEI CHI

ANTENNA / CABLE ANT • CABLE
AUTO PRESEI
MANUAL SET • ADD ERASE
AFT • ON OFF
FINE TUNING

PLÂY OK

• To preset VHF and UHF channels:

Press **←/→** to set ANTENNA/CABLE to ANT.

TUNER PRESET CH2

ANTENNA / CABLE · ANT CABLE
AUTO PRESET
MANUAL SET · ADD ERASE
AFT · ON OFF
FINE TUNING



Press **↑**/**♦** to select AUTO PRESET, then press OK.

All receivable channels are preset in numerical sequence. When no more receivable channels can be found, presetting stops and the picture from the lowest numbered channel is displayed on the TV screen.

TUNER PRESET CH2

ANTENNA / CABLE • ANT CABLE

AUTO PRESET

MANUAL SET • ADD ERASE

AFT

FINE TUNING

PLEASE WAIT

Tip

 When receiving a VHF, UHF, or CATV channel, the display changes as follows each time you press DISPLAY.

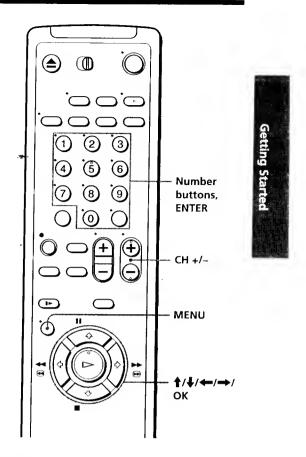
Channel number, program name, and station's call letters (if the broadcaster sends those services)

Remaining tape length, and time counter

The bar indicator and pointer for searching a specific point

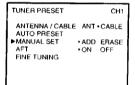
No display

Presetting/disabling channels manually



1 · MENU

Press MENU and select TUNER PRESET, then press OK.



continued

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Presetting channels (continued)

- ① ② ③ ④ ⑤ ⑥ (i) (ii) (iii) (ii

(i) (ii)

• To preset a channel:

Channel to be preset

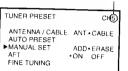
- - **1** Press the number buttons to enter the channel number, then press ENTER.
- TUNER PRESET ANTENNA CABLE ANT CABLE
 AUTO PRESET
 MANUAL SET • ADD ERASE •ADD ERASE •ON OFF AFT FINE TUNING

2 Press ←/→ to set MANUAL SET to ADD.



- To disable a channel:
- 1 Press CH +/- to select the channel number.
- 2 Press ←/→ to set MANUAL SET to ERASE.

Channel to be disabled

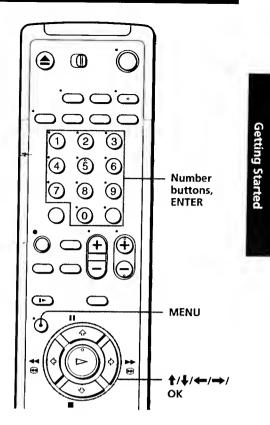




OŔ.

Repeat step 2 to preset or disable channels as required, then press

Normally, the Auto Fine Tuning (AFT) function automatically tunes in channels clearly. If, however, the picture of a channel is not clear, you can also use the manual tuning function.



1 ·MENU

Press MENU and select TUNER PRESET, then press OK.

TUNER PRESET CHI

ANTENNA / CABLE ANT • CABLE
AUTO PRESET

MANUAL SET • ADD ERASE
AFT / • ON OFF

FINE TUNING

Ö Ö

Press the number buttons to select the channel you want to fine-tune, then press ENTER.

TUNER PRESET CHS

ANTENNA / CABLE ANT · CABLE AUTO PRESET

MANUAL SET · ADD ERASE AFT · ON OFF

FINE TUNING

continued

Getting Started

47

Presetting channels (continued)

Press \uparrow / \downarrow to select FINE TUNING. The fine tuning meter appears.

TUNER PRESET CH5

ANTENNA / CABLE ANT • CABLE
AUTO PRESET
MANUAL SET • ADD ERASE
AFT
• FINE TUNING

4

Press \leftarrow/\Rightarrow to adjust to a clearer picture, then press OK.

Note that the AFT setting switches to OFF.

TUNER PRESET CH5

ANTENNA / CABLE ANT • CABLE AUTO PRESET

MANUAL SET • ADD ERASE AFT ON • OFF

FINE TUNING

Tip

• To select the channel on step 2 above, you can also use the CH +/- buttons. In this case, you don't need to press ENTER.

Setting up VCR Plus+

How VCR Plus+ works

Whenever you want to record a TV program, all you need to do is look up the program's "PlusCode," a number assigned to each program that's published in the TV section of most newspapers, cable TV listings, and even TV GUIDE magazine. Then, just enter the PlusCode of the program you want and the VCR is automatically programmed to record that show. It's that simple.

How to set up your VCR

Setting up your VCR involves coordinating the TV channel number (the number you turn to on your TV or VCR to watch a program) with the guide channel (the number that's assigned to that channel in your program guide). To get the guide channel numbers, find the "Channel Line-up Chart" in the program guide for your area that features VCR PlusCodes. It usually looks like the example to the right.

For each channel your VCR receives, use the Channel Line-up Chart to check that the channel numbers match. For example, if HBO is listed in the Channel Line-up Chart on channel 33, and your VCR receives HBO on channel 5, you need to coordinate these numbers using the following procedure. For channels in which the numbers are the same, you can skip this procedure.

Example of "PlusCode"

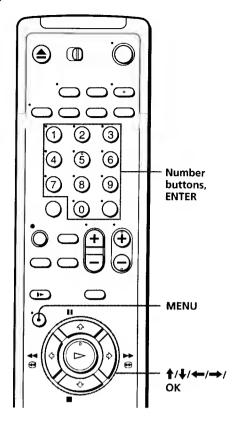


Example of "Channel Line-up Chart"

CABLE CH	CABLE TV	VCR Plus+ GUIDE CH
16	AMC American Movie Classics	3 5
17	BRV Bravo (program grid only)	54
20	GNN Cable News Network	42
21	GSP C-SPAN	28
22	DIS The Disney Channel	53
25	OSC The Discovery Changel	37
34	ESIN ESPN	34
35	FAM The Family Channel	47
5	GEO Home Box Office	33
27	LIF Lifetime	46
29	MAX Cinemax	45
30	MIV Music Television	48
31	NIK Nickelodeon	38
38	SC Sports Channel	59
39	SCA Sports Channel America	70
45	SHO Showtime	41
17	TBS TBS SuperStation	43
44	TMC The Movie Channel	58
49	TNN The Nashville Network	49
50	Tumer Network Television	52
51	USA USA Network	44
_		

continued

Setting up VCR Plus+ (continued)



• MENU Press curso CHA

Press MENU, then press ↑/↓ to move the cursor (▶) to SET VCR PLUS+CHANNELS and press OK.

SET VCR PLUS+ CHANNELS

GUIDE, CH TV CH

PUSH 0-9 KEYS TO SET
PROGRAM GUIDE CH

OR PUSH OK TO SEE
VCR PLUS+ CHANNEL LIST

① ② ③ ④ ⑤ ⑥

© © © O © Enter the channel number assigned in the program guide and press ENTER.

SET VCR PLUS+ CHANNELS

GUIDE, CH TV CH

ST --
PUSH 0-9 KEYS TO SET

PROGRAM GUIDE CH

THEN PUSH ENTER

- If you made Hookup 1, 2 or 3: Enter the actual number on your TV (and VCR) and press ENTER.
- If you made Hookup 4: Enter the cable output channel (usually 2, 3 or 4) and press ENTER.
- If you made Hookup 6: Enter the actual number on your TV (and VCR) for an unscrambled channel and press ENTER. For a scrambled channel, enter the cable box output channel (usually 2, 3, or 4) and press ENTER.

SET VCR PLUS+ CHANNELS

PUSH 0-9 KEYS TO SET PROGRAM TV CH

THEN PUSH ENTER

SET VCR PLUS+ CHANNELS

GUIDE CH TV CH PUSH 0-9 KEYS TO SET PROGRAM TV CH

THEN PUSH ENTER

4

Repeat steps 2 and 3 for each channel whose numbers don't match.



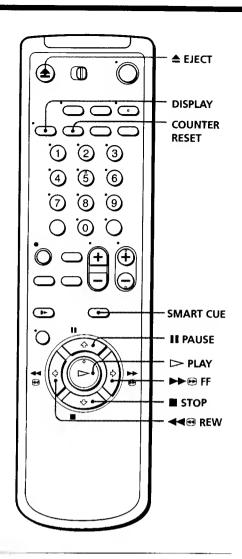
When you have set all channels, press OK to confirm your channel settings.

VCR PLUS+	CHA	NN	EL LIST
GUIDE	τv		GU!DE TV
			59 - 47
5 -	4		61 3
17 -	55		77 - 35
28 -	9		86 -120
			90 - 22
USE 4/ ▶ T			
PUSH MENU	TO	Qυ	IT



When you've finished, press MENU to exit.

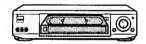
Playing a tape



Turn on your TV and set it to the video channel.

Insert a tape.

The VCR turns on and starts playing automatically if you insert a tape with its safety tab removed.



Press > PLAY.

When the tape reaches the end, it will rewind automatically.

Additional tasks

То	Press	
Stop play	■ STOP *	
Pause play	11 PAUSE	
Resume play after pause	■ PAUSE or press ➤ PLAY.	
Fast-forward the tape	▶► FF during stop	
Rewind the tape	◄◄ REW during stop	
Eject the tape	≜ EJECT	

To skip playback

You can skip a portion of playback you don't want to watch such as a commercial and restart playback by pressing a single button.

Press SMART CUE during playback of a scene you want to skip. The VCR starts searching.

Press SMART CUE again when you find the scene you want to watch. The VCR stops searching, rewinds a few seconds, then resumes normal playback.

To use the time counter

At the point on the tape that you want to find later, press COUNTER RESET. The counter in the display window resets to "0:00:00." Search for the point afterwards by referring to the counter.

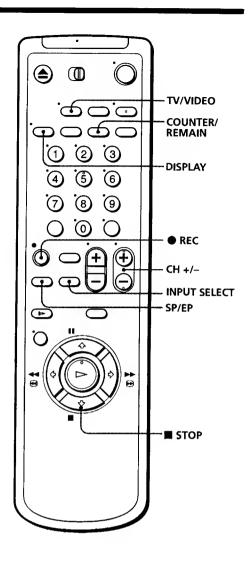


To display the counter on the TV screen, press DISPLAY.

Notes

- Tapes recorded in the LP mode on other VCRs can be played back on this VCR but the picture quality cannot be guaranteed.
- While setting the menu on the TV screen, you cannot use the ► PLAY, PAUSE,
 ►► FF, ◄< REW, and STOP buttons for tape operation.
- The counter resets to "0:00:00" whenever a tape is reinserted.
- The counter stops counting when it comes to a portion with no recording.

Recording TV programs



Turn on your TV and set it to the video channel.

To record from a cable box, turn it on.

Insert a tape with its safety tab in place.

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2

Recording TV programs (continued)

To check the remaining time

Press DISPLAY repeatedly until the time counter appears on the TV screen. With the display on, press COUNTER/REMAIN to check the remaining time. Each time you press COUNTER/REMAIN, the time counter and the remaining time appear alternately. The ② indicator also appears in the display window.



To check the remaining time of a T-140 or T-180 tape, set TAPE SELECT in the ADVANCED OPTIONS menu to "180." (For details, see page 75.)

To watch another TV program while recording

- Press TV/VIDEO to turn off the VIDEO indicator in the display window.
- If the TV is connected to the VCR's LINE OUT jacks, set the TV to TV input; if not, skip this step.
- 3 Select another channel on the TV.

To select the channel using the shuttle ring

To select a channel in step 4 on page 55, you can also use the shuttle ring. During stop, turn the shuttle ring clockwise for higher channels or counterclockwise for lower channels. The VCR switches the channel in the preset order.

To save a recording

To prevent accidental erasure, break off the safety tab as illustrated. To record on a tape again, cover the tab hole with adhesive tape.



- To select a channel, you can use the number buttons on the remote commander. Enter the channel number, then press ENTER.
- You can select a video source from the LINE-1 IN or LINE-2 IN jacks using INPUT SELECT.
- The display appears on the TV screen indicating information about the tape, but the information won't be recorded on the tape.
- If you don't want to watch TV while recording, you can turn off the TV. When using a cable box, make sure to leave it on.

Notes

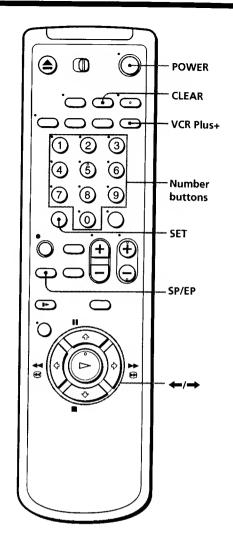
- The remaining time may not be indicated accurately for:
 - short tapes less than T-20
 - T-130
 - T-210
 - tapes recorded in the LP mode.
- The display doesn't appear during still (pause) mode, search mode, or slow-motion
- It may take up to one minute for the VCR to calculate and display the remaining time after you press DISPLAY.

Recording TV programs using VCR Plus+

Just enter the program's PlusCode listed in the TV program guide. The date, times and channel number of that program are set automatically. You can preset up to eight programs at a time.

Before you start...

- Check that the VCR clock is set to the correct time.
- Turn on your TV and set it to the video channel. When using a cable box, turn it on.
- Insert a tape with its safety tab in place. Make sure the tape is longer than the total recording time.



VCR Plus+

Press VCR Plus+.

VCR PLUS+

PLUSCODE

SP/EP EP

ENTER PROGRAM'S PLUSCODE USING 0-9 KEYS

TO CHANGE TAPE SPEED PUSH SP / EP

continued

Basic Operations

Recording TV programs using VCR Plus+ (continued)

To use the VCR after setting the timer

To use the VCR before a timer recording begins, just press POWER. The ⊕ indicator turns off and the VCR switches on. Remember to press POWER to reset the VCR in timer recording standby after using the VCR.

You can also do the following tasks while the VCR is recording:

- Reset the counter.
- Display tape information on the TV screen.
- Check the timer settings.
- Watch another TV program.

To lock the VCR after setting the timer (Child Lock)

While the VCR turns on, hold POWER down on the VCR until the on indicator appears in the display window. The VCR turns off and the on indicator remains lit. The VCR will not work except for timer recording.

To unlock the VCR, hold POWER down on the VCR until the — indicator disappears from the display window. The VCR is unlocked and turns on.

To stop timer recording while the VCR is locked, press ■ STOP. The recording stops and the VCR is unlocked.

Tip

 To cancel VCR Plus+ recording, press VCR Plus+ before pressing SET in step 4 on page 59.

Note

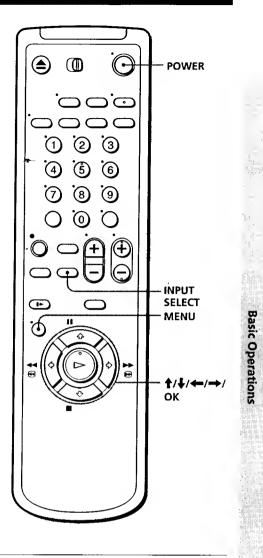
- If the VCR doesn't accept the PlusCode, this means that:
 - The PlusCode is incorrect.
 - ONCE, DAILY, or WEEKLY was selected incorrectly. You cannot select DAILY or WEEKLY for a program that airs more than seven days ahead.

Setting the timer manually

If VCR Plus+ is not available in your area, follow the instructions below to set the timer to record programs.

Before you start...

- Check that the VCR clock is set to the correct time.
- Turn on your TV and set it to the video channel. When using a cable box, turn it on.
- Insert a tape with its safety tab in place. Make sure the tape is longer than the total recording time.



• MENU

Press MENU and select TIMER SET/ CHECK, then press OK.



TIMER SET	/ CHECK START	11/1 STOP	6 MO CH
▶-/	:	-:	
-/	-:	-:	
-/	-:	-:	1
-/	-:	-:	
-/	-:	-:	
-/	-:	-:	
-/	-:	-:	
-/	-:	-:	

continued

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Setting the timer manually (continued)

2



Set the date, start and stop times, channel number, and tape speed:

- 1 Press to flash each item in turn.
- 2 Press **↑**/**↓** to set each item.

To correct a setting, press - to return to that setting and reset.

TIMER SET	CHECK	11/10	MO 6
-11/16 MO	START	STOP	CH
11/16 MO	:-	-7	EP
_ **********	`-:		
-/	-:		
-/	-:		
-/	-:		
-/	:	- '	
-/	~ ;		
-/	- :		

To record the same program every day or the same day every week, press \ while the date is flashing. For details, see "Daily/weekly recording" on this page.



To record from a source connected to the LINE 1 IN or LINE 2 IN jacks, press INPUT SELECT to display "L1" or "L2" in the "CH" position.





Press → to confirm the setting.

The cursor (▶) appears at the beginning of the line. To enter another setting, move the cursor to the next line and repeat step 2.



Press OK.





Press POWER to turn off the VCR.

The © indicator appears in the display window and the VCR stands by for recording. When using a cable box, leave it on.

Daily/weekly recording

In step 2 above, press
♣ to select the recording pattern. Each time you press \clubsuit , the indication changes as shown below. Press \P to change the indication in reverse order.

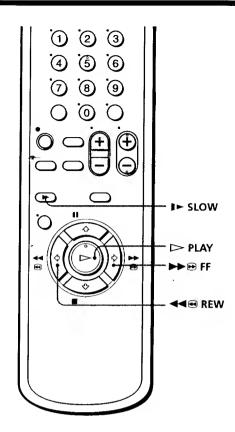
the current date \rightarrow SU-SA \rightarrow MO-SA \rightarrow MO-FR \rightarrow EVERY SA \rightarrow \rightarrow EVERY MO → EVERY SU → 1 month later → (dates count down) → the current date

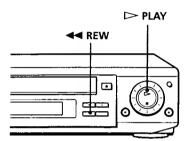
Tips

- To set the channel, you can also use the CH+/-, number buttons, or shuttle ring during stop.
- To set the tape speed, you can also use SP/EP.

• If you are using cable box control, you cannot select "L1" or "L2".

Playing/searching at various speeds





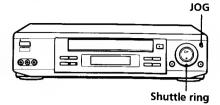
Playback options	Operation		
View the picture during fast-forward or rewind	During fast-forward, hold ►►⊕ FF down. During rewind, hold ◀◀⊕ REW down.		
Play at high speed	 During playback, press ►►⊕ FF or ◄◄⊕ REW on the remote commander. During playback, hold ►►⊕ FF or ◄◄⊕ REW down. When you release the button, normal playback resumes. 		
Play in slow motion	During playback or pause, press ▶► SLOW.		
Play frame by frame	During pause, press ▶▶ ⊕ FF or ◄◄ ⊕ REW. Hold the button down to play one frame each second.		
Rewind and start play	During stop, press ➤ PLAY on the VCR while holding REW down on the VCR.		

continued

Playing/searching at various speeds (continued)

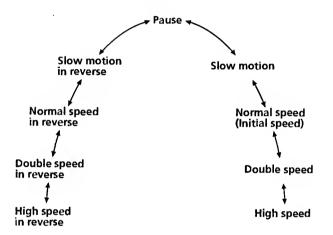
Using the shuttle ring on the VCR

With the shuttle ring on the VCR, you can operate a variety of playback options. There are two ways for using the shuttle ring, normal mode and jog mode.



To use the shuttle ring in normal mode

During playback or pause, turn the shuttle ring clockwise or counterclockwise. Each change in the shuttle ring position changes the playback mode in the following way.



To use the shuttle ring in jog mode

Use this mode for frame-by-frame playback.

Press JOG to enter the jog mode. The JOG button lights up. If you change to the jog mode during any playback mode, the playback pauses so you can see a still picture. Each change in the shuttle ring position shifts the picture one frame. To shift frames in reverse, turn the shuttle ring counterclockwise. The frame shift speed depends on the speed you turn the shuttle ring. To resume normal playback, press JOG again. The JOG indicator goes off.

To resume normal playback

Press ► PLAY.

Tip

- Adjust the picture using the TRACKING +/- buttons on the VCR if:
 - -Streaks appear while playing in slow motion.
 - The picture shakes while pausing.

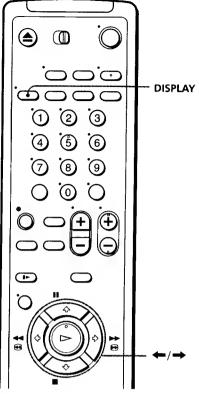
To set tracking to the center position, press both buttons (+/-) at the same time.

• When you hold ►► FF or ► REW down during stop, skip-search starts. For details, see page 68.

- The sound is muted during these operations.
- Tapes recorded in the LP mode on other VCRs can be played back on this VCR but the picture quality cannot be guaranteed.
- The picture may have snow:
 - when playing at high speed in reverse
 - when playing in reverse slow motion
 - when playing in reverse.

Searching for a selected point on the tape

You can easily find a specific point by moving the pointer on the TV screen. The VCR fast-forwards or rewinds to the point you indicate and starts playback automatically.



- Press DISPLAY repeatedly until the scroll bar indication appears on the TV screen.
 - A cursor (■) indicating the current position of the tape appears on the scroll bar. If the cursor does not appear, play the tape a few moments (by pressing ▷ PLAY, ▶ ⊕ FF, or REW) until the cursor appears.
- Press \leftarrow/ \rightarrow to move the pointer (+) to the point where you want to start playback.

The VCR starts searching and the cursor (**I**) moves toward the pointer. When the VCR locates the marked point, playback starts.



To cancel searching

Press ► PLAY or ■ STOP.

To turn off the bar indication

Press DISPLAY again.

Notes

• The figure on the scroll bar represents the total time length of the inserted tape as shown below.

The total time length may not be displayed correctly for:

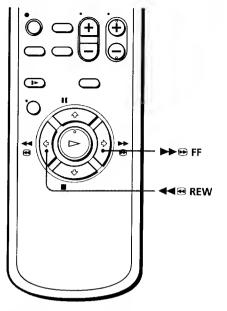
- tapes other than T-60, T-120, or T-160
- tapes recorded in more than one tape speed mode.

Tape type	Total time length		
	SP	LP	EP
T-60 or shorter	60	120	180
from T-80 to T-140	120	240	360
T-160 or longer	160	320	480

- If you move the pointer (+) on the scroll bar during search, the VCR searches for the new reset point.
- With the scroll bar indication on, the ►►® FF/→ and ◄<® REW/← buttons on the remote commander work only for moving the pointer (+), while the ►►® FF and ◄<® REW buttons on the VCR work normal tape operation. Note, however, if you press these buttons on the VCR, searching is canceled.

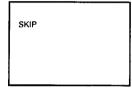
Skip-searching automatically

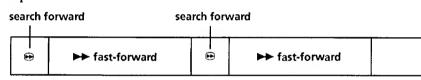
You can spot check a whole tape quickly. At intervals, the VCR skips playback while searching forward or backward.



Hold ▶ ⊕ FF (or ◀ ⊕ REW) down more than two seconds during stop. "SKIP" indicator appears on the TV screen.

The VCR searches forward (or backward) for about two minutes on the counter, then fastforwards (or rewinds) for about ten minutes on the counter. The VCR repeats this operation until it stops at the end (or beginning) of the tape.





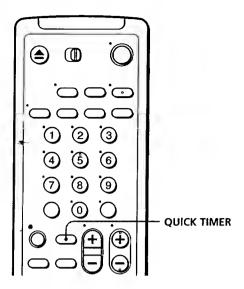
To cancel skip-search

Press ► PLAY or ■ STOP.

• The VCR automatically fast-forwards (or rewinds) any portion with no recording.

Recording TV programs using the quick timer

After starting recording in the normal way, you can have the VCR stop recording automatically after a specified duration.



While recording, press QUICK TIMER once.

The ② indicator appears in the display window.



Press QUICK TIMER repeatedly to set the duration.

Each press advances the time in increments of 30 minutes.

The duration decreases minute by minute to 0:00, then the VCR stops recording and turns off automatically.

To extend the duration

Press QUICK TIMER repeatedly to set to the new duration.

To stop the VCR while recording

Press **STOP**.

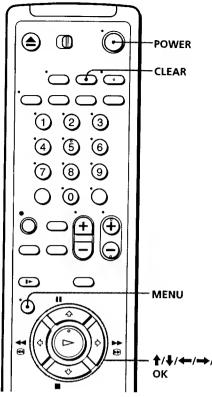
Using the quick timer during stop mode

You can set the quick timer and start recording during stop mode by pressing QUICK TIMER. To set the channel, you can use the CH +/- or INPUT SELECT buttons. Press QUICK TIMER repeatedly to set the recording duration. The recording will start automatically.

Checking/ changing/ canceling timer settings

Before you start...

• Turn on your TV and set it to the video channel.



- Press POWER to turn on the VCR.
- Press MENU and select TIMER SET/CHECK:
 - If you want to change a setting, go on to the next step.
 - · If you do not need to change the settings, press OK, then turn off the VCR to return to recording standby.

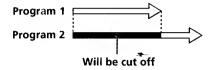
ı	TIMER SET	CHECK	11/16	MO
	DATE			
1	▶11/17 TU			
	11/25 WE			
	MO - SA			
	EVERYSU		1:30PW	42SP
١	-/		-:	
Į	-/			
-1	-/		-:	
ı	/	-:	-:	

- Press **↑**/**↓** to select the setting you want to change or cancel:
 - To change the setting, press ←/→ to flash the item you want to change, and press ↑/↓ to reset it. Then, press → repeatedly until the cursor () appears at the beginning of the line.
 - To cancel the setting, press CLEAR.
- Press OK.

If any timer settings remain, turn off the VCR to return to recording standby.

When the timer settings overlap

The program that starts first has priority and the second program starts recording only after the first program has finished. If the programs start at the same time, the program listed first in the menu has priority.



Recording stereo and bilingual programs

Recording stereo programs

This VCR automatically receives and records stereo programs. When a stereo program is received, the STEREO indicator lights up. If there is noise in the stereo program, set AUTO STEREO in the ADVANCED OPTIONS menu to OFF. The sound will be recorded in monaural (on both hi-fi and normal audio tracks) but with less noise. For details, see page 75.

Recording bilingual programs

Normally, this VCR records only the main sound. When a SAP (Second Audio Program) is received, the SAP indicator lights up. To record only SAP sound, set TUNER AUDIO in the ADVANCED OPTIONS menu to SAP. For details, see page 75.

Selecting the sound while playing

Press AUDIO MONITOR to select the desired sound. (The sound being recorded will not change.)

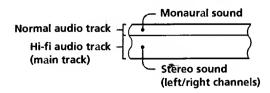
Stereo program

To listen to	Indicator on the TV screen	
Stereo	STEREO	
Left channel	L	
Right channel	R	
Monaural sound on the normal audio track*	No indicator appears	

^{*} Usually the mixed sound of left and right channels

How sound is recorded on a video tape

The VCR records sound onto two separate tracks. Hi-fi audio is recorded onto the main track along with the picture. Monaural sound is recorded onto the normal audio track along the edge of the tape.



Notes

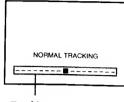
- To play a tape in stereo, you must use the A/V connections.
- When you play a tape recorded in monaural, the sound is heard in monaural regardless of the AUDIO MONITOR setting.

Adjusting the picture

Adjusting the tracking

Although the VCR automatically adjusts the tracking when playing a tape (the ⋈ indicator flashes in the display window, then goes off), distortion may occur if the tape was recorded in poor condition. In this case, manually adjust the tracking.

Press the TRACKING +/- buttons on the VCR to display the tracking meter. The distortion should disappear as you press one of the two buttons (the ☑ indicator lights up). To resume automatic tracking adjustment, eject the tape and reinsert it.



Tracking meter

About Adaptive Picture Control (APC)

Adaptive Picture Control (APC) automatically improves recording and playback quality by adjusting the VCR to the condition of the video heads and tape. To maintain better picture quality, we recommend that you set APC to ON in the ADVANCED OPTIONS menu (with the APC indicator in the display window lit).

APC playback

The APC function automatically works on all types of tapes, including rental tapes and tapes that were not recorded with APC.

APC recording

Whenever you insert a tape and first start recording, the VCR adjusts to the tape using the APC function (the APC indicator flashes rapidly). This adjustment is retained until the tape is ejected.

Notes

- The auto tracking adjustment cannot be guaranteed to work with on tapes recorded in the LP mode on other VCRs.
- With the Auto Tape Speed function on, the APC function doesn't work if the tape speed is automatically changed from the SP to EP mode during a timer recording, unless the tape has been recorded in the EP mode with the APC function. For details, see page 75.
- There is a delay of a few seconds before the VCR actually starts recording while the VCR analyzes the tape. To avoid the delay, first set the VCR to recording pause (the APC indicator flashes slowly) and press REC to have the VCR analyze the tape. After the APC indicator stops flashing, press PAUSE to start recording immediately. If you press PAUSE before the APC indicator stops flashing, the APC function is canceled.

Changing menu options

Press MENU and select ADVANCED OPTIONS.

ADVANCED OPTIONS		
▶AUTO STEREO	• ON	OFF
TUNER AUDIO	 MAIN 	SAP
APC	• ON	OFF
TAPE SELECT	AUTO	180
AUTO TAPE SPEED	• ON	OFF
SHARPNESS	L-s	-H

- Press **↑**/**↓** to select the option to change, then press **←**/**→** to change the setting.
- 3 Press OK to return to the original screen.

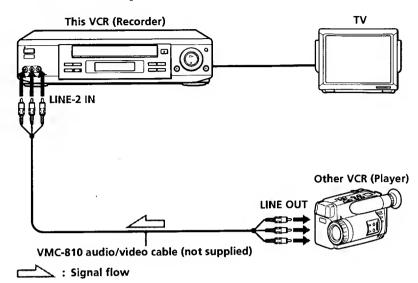
Menu choices

Initial settings are indicated in bold print.

Menu option	Set this option to	
AUTO STEREO	ON to receive stereo programs. OFF to reduce noise; the sound changes to monaural.	
TUNER AUDIO	MAIN to record the main sound on both hi-fi and normal audio tracks. SAP to record the SAP (Second Audio Program) sound on both hi-fi and normal audio tracks.	
APC	ON to switch on the APC (Adaptive Picture Control) function and improve picture quality. OFF to switch off APC.	
TAPE SELECT	AUTO or 180 (when using a T-140 or T-180) to select the tape length and display the remaining time correctly.	
AUTO TAPE SPEED	ON to change the timer recording tape speed automatically to the EP mode when the remaining tape becomes shorter than the recording time. OFF to keep the set tape speed.	
SHARPNESS	L (Low) through H (High) to adjust the sharpness of the picture. L to turn off the sharpness control.	

Editing with another VCR

How to hook up to record on this VCR



How to hook up to a stereo system

Connect LINE-2 IN AUDIO on this VCR to the audio output jacks on the stereo system, using the RK-C510KS audio cable (not supplied).

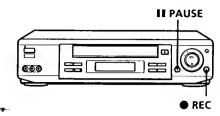
Notes

- Make sure you connect the plugs to jacks of the same color.
- If the other VCR is a monaural type and connected to this VCR's LINE-2 IN jacks, connect the audio plug to the AUDIO L (white) jack. The sound is recorded on both right and left channels. When connecting to the AUDIO R (red) jack, the sound is recorded only on the right channel.
- If you connected this VCR to both the LINE IN and LINE OUT jacks of the other VCR, select the input correctly to prevent a humming noise.
- You can also use the LINE-1 IN jacks instead. If the other VCR is a monaural type, the sound is recorded only on the channel whose jack is connected to the audio plug. To record on both right and left channels, connect the audio plugs to the AUDIO R/L jacks using a VMC-910MS audio/video cable (not supplied).

Operation (when recording on this VCR)

Before you start editing

- Turn on your TV and set it to the video channel.
- Press INPUT SELECT to display "L1" or "L2" in the display window.
- Press SP/EP to select the tape speed, SP or EP.



- Insert a source tape with its safety tab removed into the other (playback) VCR. Search for the point to start playback and set it to playback pause.
- Insert a tape with its safety tab in place into this (recording) VCR. Search for the point to start recording and press I PAUSE.
- 3 Press REC on this VCR and set it to recording pause.
- 4 To start editing, press the II PAUSE buttons on both VCRs at the same time.

To stop editing

Press the STOP buttons on both VCRs.

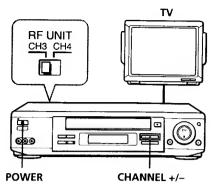
Note

If you start recording following the procedure above, the VCR won't start recording
with the APC function. To record a tape with the APC function, press ● REC again
during recording pause in step 3 so that the VCR analyzes the tape. Then when you
start recording in step 4, press ■ PAUSE immediately after the APC indicator stops
flashing. If you press ■ PAUSE before the APC indicator stops flashing, the APC
function is canceled.

General setup information

Setting the RF unit

When connecting the VCR to the TV using only the antenna cable, you must set the RF UNIT switch on the rear of the VCR so that the TV can receive the correct signal from the VCR.



- Set the RF UNIT switch on the rear of the VCR to CH 3 or CH 4, whichever channel is not used in your area. If both are used, set the switch to either channel.
- 2 Press POWER to turn on the VCR.
- 3 Press TV/VIDEO on the remote commander to turn on the VIDEO indicator in the VCR's display window.
- Press CHANNEL +/- to display a channel number in the display window. Select an active channel number in your area.
- 5 Turn on your TV and set it to the channel you selected in step 1 (channel 3 or 4).

The selected TV channel broadcast appears on the TV screen. If the channels change when you press CHÂNNEL +/-, you have made the correct setting.

Whenever you use the VCR, set the TV to the channel selected in step 1.

Attaching the external antenna connector

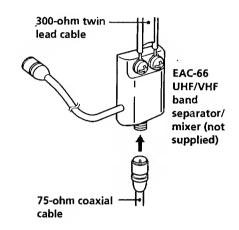
When using a 300-ohm twin lead cable for VHF/UHF antenna, use the EAC-32 antenna connector (not supplied) to connect the antenna to the VCR.



- 1 Loosen the screws on the antenna connector.
- Wind the twin leads around the screws on the antenna connector.
- **3** Retighten the screws.

Attaching a UHF/VHF band mixer

When using both 75-ohm coaxial cable and 300-ohm twin lead cable for VHF/UHF antenna, use the EAC-66 UHF/VHF band separator/mixer (not supplied) to connect the antenna to the VCR.



- 1 Loosen the screws on the mixer.
- Wind the twin leads around the screws on the mixer.
- **3** Retighten the screws.
- 4 Connect the 75-ohm coaxial cable to the mixer.

Troubleshooting

If you have any questions or problems not covered below, please consult your nearest Sony dealer.

	Symptom	Remedy
Power	The POWER switch does not function.	 Connect the AC power cord securely. Make sure the VCR is not locked. To unlock, hold down POWER on the VCR until the indicator disappears.
	The power is turned on but the VCR does not operate.	 Moisture condensation occurs. Turn the power off, unplug the AC power cord and leave the VCR to dry for over an hour.
Clock	The clock has stopped and "-:" lights in the display window.	• The clock stops if the VCR is disconnected from the wall outlet for more than one hour. Reset the clock (and timer).
Playback	The playback picture does not appear on the TV screen.	• Make sure the TV is set to the channel for the VCR. If you are using a monitor, set it to video input.
	The picture is not clear.	 Adjust the tracking with the TRACKING+/- buttons. The video heads are dirty (see below). Clean the video heads using the Sony T-25CLD, T-25CLDR, or T-25CLW video head cleaning cassette. If these cleaning cassettes are not available in your area, have the heads cleaned at your nearest Sony service facility (a standard service charge will be required). Do not use a commercially available liquid type cleaning cassette other than Sony's, as they may damage the video heads. The video heads may have to be replaced. Consult your local Sony dealer for more information.
	The picture rolls vertically during picture search.	Adjust the vertical hold control on the TV or monitor.
	The picture has no sound.	 The tape is defective. If you made A/V connections, check the audio cable connection.

Symptoms caused by contaminated video heads

- Normal picture
- Rough picture
- Unclear picture
- No picture (or black & white screen appears)









initial contamination

	Symptom	Remedy
Recording	A TV program does not appear on the TV screen.	 Make sure the TV is set to the channel for the VCR. If you are using a monitor, set it to video input.
	TV reception is poor.	Adjust the TV antenna.
	The tape starts playing as soon as it is inserted.	• The safety tab has been removed. To record on this tape, cover the tab hole.
	The tape ejects when you press ● REC.	Check that the safety tab has not been removed.
	Nothing happens when you press ● REC.	 Make sure the tape is not at its end. Select the correct source. Select a channel number with the CH +/- buttons when recording TV programs; select "L1" or "L2" with the INPUT SELECT button when recording from other equipment.
Timer recording	The timer does not operate.	 Check that the clock is set. Make sure a tape has been inserted. Check that the safety tab has not been removed. Make sure the tape is not at its end. Make sure a program has been set for timer recording. Make sure your timer settings have not already passed the current time. Check that the cable box is turned on. The clock stops if the VCR is disconnected from the wall outlet for more than one hour. Reset the clock and timer.
	A tape cannot be inserted.	 Check that a tape isn't already in the tape compartment.
Others	The remote commander does not function.	 Make sure you are pointing the remote commander at the remote sensor on the VCR. Replace all the batteries in the remote commander with new ones if they are weak. Make sure the TV / VIDEO remote control switch is set correctly.
	The tracking meter does not appear on the screen.	 The recording condition of the tape is very poor and tracking cannot be adjusted.
	You cannot control other TVs.	 Set your TV's code number. The code number resets to 01 when you replace the batteries of the remote commander.
	The VCR needs to be cleaned.	 Clean the cabinet, panel and controls with a dry, soft cloth, or a soft cloth slightly moistened with a mild detergent solution. Do not use any type of solvent, such as alcohol or benzine.

Specifications

System

Format

VHS NTSC standard

Video recording system

Rotary head helical scanning FM system

Video heads

Double azimuth four heads

Video signal

NTSC color, EIA standards

Tape speed

SP: 33.35 mm/s (1 3/8 inches/s)

EP: 11.11 mm/s (7/16 inches/s)

LP: 16.67 mm/s (11/16 inches/s),

playback only

Maximum recording/playback time

8 hrs. in EP mode (with T-160 tape)

Fast-forward and rewind time

Approx. 3 min. (with T-120 tape)

Tuner section

Channel coverage

VHF 2 to 13

UHF 14 to 69

CATV A-8 to A-1, A to W, W+1 to W+84

75-ohm antenna terminal for VHF/UHF

inputs and outputs

LINE-1 IN and -2 IN

VIDEO IN, phono jack (1 each)

Input signal: 1 Vp-p, 75 ohms, unbalanced,

sync negative

AUDIO IN, phono jacks (2 each)

Input level: 327 mVrms

Input impedance: more than 47 kilohms

LINE OUT

VIDEO OUT, phono jack (1)

Output signal: 1 Vp-p, 75 ohms, unbalanced,

sync negative

AUDIO OUT, phono jacks (2)

Standard output: 327 mVrms Load impedance: 47 kilohms

Output impedance: less than 10 kilohms

CABLE BOX CONTROL (CONTROL S OUT)

Stereo mini jack (plug in power) (1)

Timer section

Clock

Quartz locked

Timer indication

12-hour cycle

Timer setting

8 programs per month (max.)

Power back-up

Built-in self-charging capacitor

Back-up duration: up to 1 hour at a time

General

Power requirements

120 V AC, 60 Hz (SLV-778HF/777HF)

110 V AC to 240 V AC, 50/60 Hz (SLV-778HF

Power consumption

24 W (SLV-778HF/777HF)

20 W (SLV-778HF PX)

Operating temperature

5°C to 40°C (41°F to 104°F)

Storage temperature

-20°C to 60°C (-4°F to 140°F)

Dimensions

Approx. $430 \times 107 \times 287 \text{ mm } (w/h/d)$

(Approx. $17 \times 4^{-1}/4 \times 11^{-3}/8$ inches) including

projecting parts and controls

Mass

Approx. 4.3 kg (9 lb 8 oz)

Supplied accessories

Remote commander (1)

Size AA (R6) batteries (2)

75-ohm coaxial cable with F-type connectors (1)

Audio/video cable (3 phono to 3 phono) (1)

Jack cover (1)

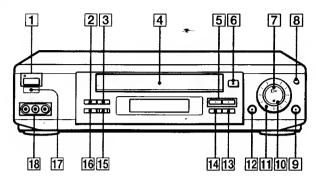
Plug adaptor (1) (SLV-778HF PX only)

Design and specifications are subject to change

Index to parts and controls

Refer to the pages indicated in parentheses () for details.

Front panel



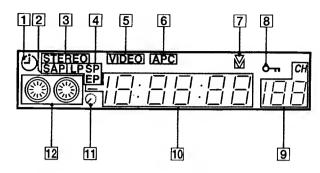
- 1 POWER switch/indicator (59)
- 2 SP (Standard Play)/EP (Extra Play) button (55)
- 3 TV/VIDEO button (56, 78)
- 4 Tape compartment
- 5 CHANNEL/TRACKING +/buttons (55, 74)
- 6 ≜ EJECT button (53)
- 7 PLAY button (53)
- 8 JOG button (64)
- **9** REC (record) button (55, 77)

- **10** STOP button (53)
- 11 Shuttle ring (56, 64)
- 12 **II** PAUSE button (53)
- FF (fast-forward) button (53, 63)
- **14 REW** (rewind) button (53, 63)
- 15 EASY SET UP button (11, 14, 17, 20, 23, 26)
- 16 INPUT SELECT button (55, 57)
- 17 Remote sensor (5)
- 18 LINE-2 IN VIDEO/AUDIO L/R jacks (76)

continued

Index to parts and controls (continued)

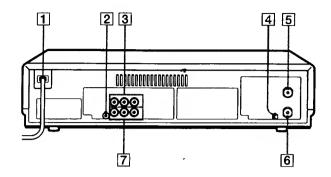
Display window



- 1 Timer indicator (59)
- 2 SAP (Second Audio Program) indicator (72)
- 3 STEREO indicator (72)
- 4 Tape speed indicator (55)
- **5** VIDEO indicator (56, 78)
- 6 APC (Adaptive Picture Control) indicator (74)

- 7 Tracking indicator (74)
- 8 Child Lock indicator (60)
- 9 Line/channel indicator (55, 77)
- 10 Time counter/clock indicator (53)
- 11 Remaining time indicator (56)
- 12 Tape/recording indicator (55)

Rear panel

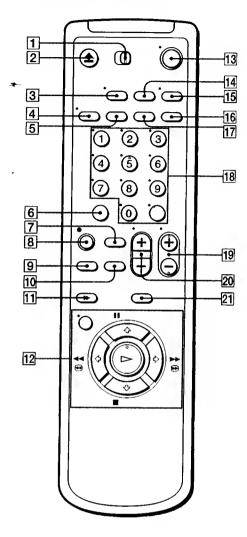


- 1 AC power cord (7)
- **2** CABLE BOX CONTROL (CONTROL S OUT) jack (10, 22)
- 3 LINE-1 IN AUDIO L/R/VIDEO jacks (22, 76)
- 4 RF (Radio Frequency) UNIT switch (78)
- 5 VHF/UHF IN connector (10, 13, 16, 19, 22, 25)
- 6 VHF/UHF OUT connector (10, 13, 16, 19, 22, 25)
- 7 LINE OUT AUDIO L/R/VIDEO jacks (8)

continued

Index to parts and controls (continued)

Remote commander



- 1 TV / VIDEO remote control switch
- **2 △** EJECT button (53)
- **3** TV/VIDEO button (6, 56, 78)
- 4 DISPLAY button (56, 66)
- 5 COUNTER RESET button (53)
- 6 SET button (59)
- **7** QUICK TIMER button (69)
- 8 REC (record) button (55)
- 9 SP (Standard Play)/EP (Extra Play) button (55)
- 10 INPUT SELECT button (55, 62)
- **11** ► SLOW button (63)
- 12 Tape/menu operation buttons (30, 53, 63)

MENU button

- PAUSE/ toutton
- STOP/ **!** button
- **◄** REW (rewind)/ **←** button
- ▶▶ FF (fast-forward)/→ button ► PLAY/OK button
- 13 POWER switch (59, 62)
- 14 CLEAR button (70)
- 15 AUDIO MONITOR button (72)
- 16 VCR Plus+ button (58)
- 17 COUNTER/REMAIN button (56)
- 18 Number buttons and ENTER button (50, 59)
- 19 CH (channel) +/- buttons (55)
- 20 VOL (volume) +/- buttons
- 21 SMART CUE button (53)

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Hookup 1

To play a tape

- 1 Set the TV to channel 3 or 4 (or to video input, if you made A/V connections.)
- 2 Insert a tape and press
 → PLAY.

To record a program

- 1 Turn on the cable box.
- 2 Press VCR Plus+ on the remote commander.
- **3** Enter the program's PlusCode number.
- **4** Select ONCE, DAILY, or WEEKLY, then press SET.
- 5 Insert a tape.
- **6** Press POWER to turn off the VCR.
- 7 Leave the cable box on.

To watch TV

- 1 Turn off your VCR, or press the VCR's TV/ VIDEO button until the VIDEO indicator'in the display window goes off.
- 2 Turn on your cable box.
- **3** Set the TV to the cable box output channel (usually 2, 3, or 4).
- **4** Set the cable box to the channel you want to watch.

Hookup 2

To play a tape

- 1 If you made A/V connections, set the TV to video input.
 If you didn't use A/V hookup:
- Turn on the cable box.
- Set the cable box to channel 3 or 4.
- Set the TV to the output channel of the cable box (usually 2, 3, or 4).

2 Insert a tape and press

→ PLAY.

To record a program

- 1 Press VCR Plus+ on the remote commander.
- 2 Enter the program's PlusCode number.
- **3** Select ONCE, DAILY, or WEEKLY, then press SET.
- 4 Insert a tape.
- **5** Press POWER to turn off the VCR.

To watch TV

- 1 Turn off your VCR, or press the VCR's TV/ VIDEO button until the VIDEO indicator in the display window goes off.
- 2 Select the channel with your cable box (if you have one) or with your TV.

Hookup 3

To play a tape

- 1 Set the TV to channel 3 or 4 (or to video input, if you made A/V connections.)
- 2 Insert a tape and press

 → PLAY. If there's no
 picture on your TV, press
 the VCR's TV/VIDEO
 button until the VIDEO
 indicator comes on in the
 display window.

To record a program

- 1 Press VCR Plus+ on the remote commander.
- **2** Enter the program's PlusCode number.
- 3 Select ONCE, DAILY, or WEEKLY, then press SET.
- 4 Insert a tape.
- 5 Press POWER to turn off the VCR.

To watch TV

- 1 Turn off the VCR, or press the VCR's TV/VIDEO button until the VIDEO indicator in the display window goes off.
- **2** Set the TV to the channel you want to watch.

Hookup 4

To play a tape

- 1 Set the TV to channel 3 or 4 (or to video input, if you made A/V connections.)
- 2 Insert a tape and press ▷ PLAY.

To record a program

- 1 Turn on the cable box.
- 2 Set the cable box to the channel you want to record.
- **3** Press VCR Plus+ on the remote commander.
- 4 Enter the program's PlusCode number.
- 5 Select ONCE, DAILY, or WEEKLY, then press SET.
- 6 Insert a tape.
- **7** Press POWER to turn off the VCR.
- 8 Leave the cable box on.

To watch TV

- 1 Turn off your VCR, or press the VCR's TV/ VIDEO button until the VIDEO indicator in the display window goes off.
- 2 Turn on your cable box.
- 3 Set the TV to the cable box output channel (usually 2, 3, or 4).
- 4 Set the cable box to the channel you want to watch.

If you have any questions about this product, you may call: **Sony Customer Information Center** 1-800-222-SONY (7669) or write to: **Sony Customer Information Center** Sony Drive, Mail Drop #T1-11, Park Ridge, NJ 07656

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